

CT1500085

Installation of Slab Repair Bracket

Rating: 5,000 lb (22.3 kN) Service Load 7,500 lb (33.4 kN) Maximum Lifting Load

This product must be installed by Chance certified dealers trained to install the CHANCE® Helical Pile Foundation System.

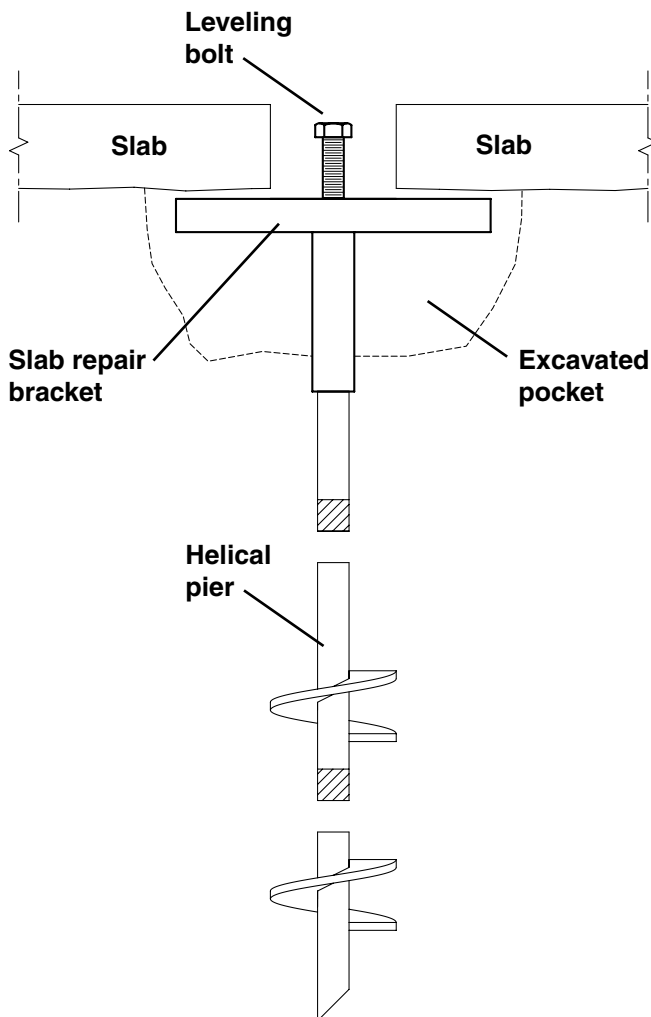
Procedure

⚠ CAUTION

Possible structural overload.

Can cause damage to concrete slab and/or objects on slab.

Space foundations and slab brackets closely enough to avoid overloading the slab. Ensure that the necessary structural considerations have been addressed by qualified personnel before attempting to raise or stabilize slab.



1. Core 6" (150 mm) hole through slab.
2. Excavate 18" dia. x 8" (0.5 m x 0.2 m) deep pocket under slab.
3. Install helical pier with twin 6" (150 mm) helices vertically down through the center of the cored hole. Continue installing to predetermined torque by adding extensions as necessary. Be sure that both helices have been driven beyond any fill area.

NOTE: For detailed Helical Pile Foundation System installation instructions, refer to your underpinning training manual.

⚠ WARNING

Helical pile installation can puncture underground utility service.

Can cause property damage, severe injury or death.

Locate and avoid all underground utility services when installing screw foundations.

4. For standard applications and providing up to 2½" (63.5 mm) of lift, cut or install the helical pier shaft at 2½" (63.5 mm) below the bottom surface of the slab. For maximum 3½" (89 mm) of lift, install or cut shaft at 1½" (38 mm) below bottom surface of slab. Note that for 3½" (89 mm) of lift, the channel must slide in from the side.

One method of obtaining the required shaft length is to install the helical pile until the predetermined torque has been reached. Then, cut the shaft above the slab where it is easier to work and then continue driving the helical pile until the shaft is at the required elevation.

continued . . .

NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.



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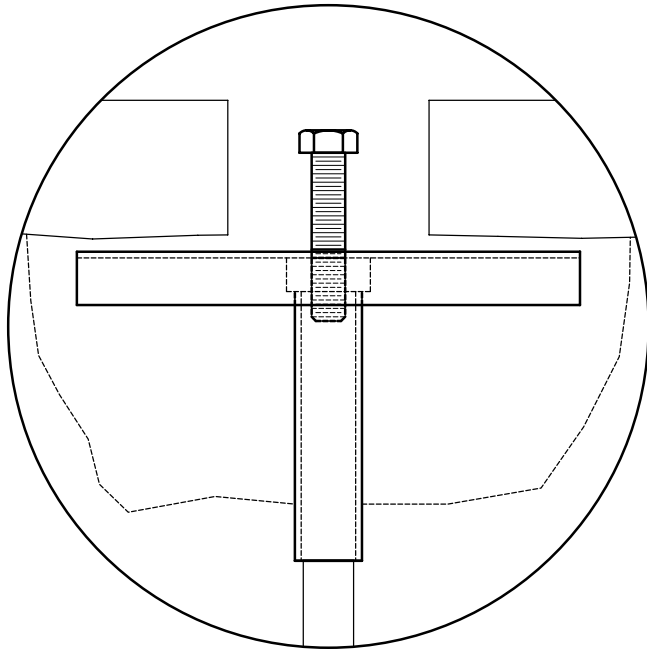
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Bulletin 01-8909

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Installation of Slab Bracket (continued)



5. Place bracket tube over helical pile shaft.
6. Slip bracket leveling channel into pocket, rotate and place on top of tube. The channel must be level/flat and have equal loading on each side of the channel with at least 4" (100 mm) of bearing surface on each end of the channel.
7. Thread 1" x 5" (25 mm x 127 mm) bolt through hole in channel into tube.
8. Use a torque wrench to tighten leveling bolt. Do not overload bracket, slab, or helical pile.

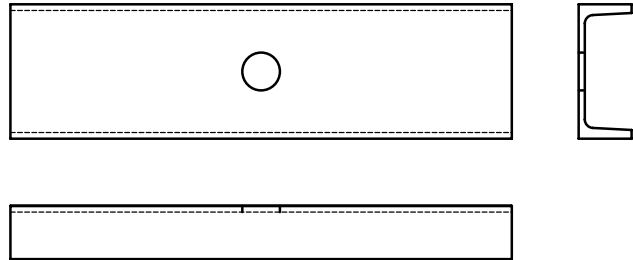


Leveling Bolt

1" (25 mm) Dia. x 5" (127 mm) long

⚠ WARNING
 Possible crushing hazard.
 Can cause property damage or personal injury.
 Stay clear of any voids created under the slab during lifting.

⚠ CAUTION
 Possible structural overload.
 Can cause damage to concrete slab, screw foundation or bracket.
 Do not exceed 150 ft-lb (203 Nm) of tightening torque on leveling bolt during lifting; do not exceed 75 ft-lb (102 Nm) long-term lock-off torque on leveling bolt.



Lifting Channel

4" (102 mm) channel, 15" (380 mm) long



Bracket Tube

2" (50 mm) x 2" (50 mm) square tube
 with tapped tubing cap